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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all other versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended): A system for predicting a target file directory, comprising:

a component which analyzes probabilities and utilities associated with determining potential target directories for storing and accessing data.

a first component that infers and/or determines expected navigation costs for directory operations associated with potential target directories, wherein the expected navigation cost is based on a probabilistic and/or utility analysis; and

a second component that outputs a subset of the potential target directories, wherein the subset is determined by selecting target directories, based in part on the expected navigation cost, in order to minimize a cost of traversing directories.

2. (Cancelled)

3. (Currently amended): The system of claim 1, wherein the utilities are functions of navigation costs associated with traversing from a displayed node from the associated with a potential target directory under consideration to at least one of the other potential target directories.

- 4. (Currently amended): The system of claim 1, wherein the second component further determines the subset of directories based on expected utilities, which of candidate nodes to display from a directory structure are computed as functions of probabilities of target information being at a node, and the navigation costs associated with traversing from the node to at least one of the potential target directories.
- 5. (Original): The system of claim 3, wherein the navigation costs are assigned by at least one of user selections and encoded within the system.
- (Original): The system of claim 1, wherein the potential target directories are determined from at least one of a local computer system and a remote computer system.
- 7. (Original): The system of claim 1, wherein the probabilities are a function of recent and long-term file activity within a directory.
- 8. (Original): The system of claim 7, wherein the long term file activity is determined from a predetermined time horizon.
- 9. (Original): The system of claim 7, wherein the recent file activity is determined from frequency of access to a file.
- 10. (Original): The system of claim 9, further comprising a background monitor to determine file access frequency.
- 11. (Original): The system of claim 1, further comprising a list scan penalty for reducing probabilities associated with scanning lists within a directory.

- 12. (Original): The system of claim 8, wherein the list scan penalty is determined as an exponential function that decreases as the number of elements on the list increases.
- 13. (Currently amended): A method for determining a potential target node for directory operations, comprising:

assigning probabilities and utilities to a plurality of potential target nodes, the utilities represent costs associated with navigating from a recommended node to an actual target node;

determining an expected utility from the probabilities and utilities associated with the plurality of target nodes; and

displaying a candidate list of likely nodes to a user based upon the expected utility.

- 14. (Currently amended): The method of claim 13, wherein <u>further</u> <u>comprising multiplying</u> the assigned probabilities and utilities are <u>multiplied</u> together to form a product at each of the plurality of target nodes.
- 15. (Currently amended): The method of claim 14, wherein <u>further</u> <u>comprising summing</u> the products from each of the plurality of target nodes are summed together to determine the expected utility for one of the plurality of potential target nodes.
- 16. (Original): The method of claim 13, wherein the utilities are related to navigation costs associated with traversing from a displayed directory to at least one of the potential target directories.
- 17. (Original): The method of claim 16, wherein the navigation costs are assigned by at least one of user selections and encoded within the system.

- 18. (Original): The method of claim 13, wherein the potential target nodes are determined from at least one of a local computer system and a remote computer system.
- 19. (Original): The method of claim 13, wherein the probabilities are a function of recent and long-term file activity within a directory.
- 20. (Original): The method of claim 19, wherein the long-term file activity is determined from a predetermined time horizon.
- 21. (Original): The method of claim 19, wherein the recent file activity is determined from frequency of access to a file.
- (Original): The method of claim 21, further comprising, monitoring a user to determine file access frequency.
- 23. (Original): The method of claim 13, further comprising, determining a list scan penalty for reducing probabilities associated with scanning lists within a directory.
- 24. (Original): The method of claim 23, wherein the list scan penalty is determined as an exponential function that decreases as the number of elements on the list increases.
- 25. (Original): A computer-readable medium storing the computer-executable component of claim 1.

26. (Currently amended): A system for determining a potential target node for directory operations, comprising:

means for assigning probabilities and utilities to a plurality of potential target nodes;

means for determining an expected utility from the probabilities and utilities associated with the plurality of target nodes; and

means for displaying a candidate list of likely nodes to a user based upon the expected utility, the candidate list comprises a subset of the potential target nodes.

27. (Currently amended): A signal adapted to be transmitted between at least two processes, comprising:

a predicting component for communicating information-associated with predicting a target file directory; and

an analyzing component which analyzes probabilities and utilities associated with determining potential target directories via the signal for storing and accessing data.

a component that infers and/or determines suitable target directories for storing and/or accessing data based on a probabilistic and/or utility based analysis; and

an output component that outputs a subset of the suitable target directories wherein the subset is determined based in part on a minimized cost of directory traversal analysis.

- 28. (Cancelled)
- 29. (Currently amended): The signal of claim 27, wherein the <u>suitable</u> potential target directories are determined from at least one of a local computer system and a remote computer system.

- 30. (New): The system of claim 1, the second component outputs the subset of directories as tree fragments.
- 31. (New): The system of claim 1, the subset comprises N potential target directories, N is an integer that is predefined.
- 32. (New): The system of claim 1, the subset comprises directories with expected navigation costs below a predetermined level.
- 33. (New): The method of claim 13, displaying the candidate list in descending order from highest expected utility.
- 34. (New): The method of claim 15, further comprising removing a potential target node with a maximum expected utility from consideration when evaluating expected utility for the other potential target nodes.